

Date: Mon, 3 May 93 21:36:47 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #534
To: Info-Hams

Info-Hams Digest Mon, 3 May 93 Volume 93 : Issue 534

Today's Topics:

 CQ ?? (2 msgs)
Differential equations and power.
FCC Rules on Transmission (2 msgs)
 IC-22U
Kenwood 732/742 Remote question
Need for foul language?
NEW HAMS/NO-CODES to the RESCUE
no-code defense
Possible to parallel x-formers??
Scanner Interference
TCM3105

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 3 May 93 23:27:31 GMT
From: news-mail-gateway@ucsd.edu
Subject: CQ ??
To: info-hams@ucsd.edu

As we are all aware the letters CQ define a general broadcast to all
stations.

Does anyone know why the letters CQ were selected?

Date: 3 May 1993 23:53:09 GMT
From: jgervais@ucsd.edu
Subject: CQ ??
To: info-hams@ucsd.edu

In article <9305032339.AA06750@ucsd.edu> SHMC0874@BCIT.BC.CA (Colin Schmutter) writes:

>As we are all aware the letters CQ define a general broadcast to all
>stations.

>

>Does anyone know why the letters CQ were selected?

Sure, "Come Quick" :-)

Seriously though, popular lore has it derived from "Seek-You".
Anyone have any answers from unpopular lore?

73 de KD6PRD
Joe Gervais jgervais@ucsd.edu
13 WPM or Bust!

| | | |
|---------------------------------------|-------------------------------|--|
| "So... if she... weighs the same as a | Mystery Science Theatre 3000 | |
| duck... she's made of wood." | "It's not just cool, it's the | |
| "And therefore?" | only thing on TV Saturday | |
| "...a witch!!!!" | afternoons." | |

Date: 3 May 93 17:10:05 EST
From: titan.ksc.nasa.gov!k4dii.ksc.nasa.gov!user@ames.arpa
Subject: Differential equations and power.
To: info-hams@ucsd.edu

In article <1993Apr28.163220.6374@hemlock.cray.com>, dadams@cray.com (David Adams) wrote:

> How are the equations usually stated?

> "Energy is stored in the magnetic field of an inductor when current
> increases through it..."

> Energy = $K \times I'$?

> Energy = $K2 \times E'$

> Intuition tells me that K2 must relate to the characteristics of the capacitor.

David-

It's been too many years since I had this stuff in school! My recollection is that Energy stored in a coil's magnetic field is $=L \times I^2$. By comparison,

Energy stored in a capacitor's electric field is $= (C \cdot V^2) / 2$. Energy is in Joules (or Watt*Seconds), Voltage in Volts, Capacity in Farads, Inductance in Henrys, Current in Amperes.

You may have confused Energy for the commonly used "E" for voltage in your formulas. Voltage, other than IR-drop, across an inductance is zero when the current is steady, and non-zero when current varies. Voltage = $L \cdot dI/dt$.

Current, other than dielectric leakage, through a capacitor is zero when the voltage is steady, and non-zero when voltage varies. Current = $C \cdot dV/dt$.

These equations may only be approximately correct. I can't remember if there are any additional constants involved.

73, Fred, K4DII

fred-mckenzie@ksc.nasa.gov

Date: 3 May 1993 22:38:33 GMT
From: topaz.bds.com!topaz.bds.com!ron@uunet.uu.net
Subject: FCC Rules on Transmission
To: info-hams@ucsd.edu

> But then even non licenced hobbists can use remote controled model

There is another class of citizens band that covers remote control.

-Ron

Date: Mon, 03 May 1993 13:19:40 -0500
From: swrinde!elroy.jpl.nasa.gov!sdd.hp.com!think.com!spdcc!merk!
harvee.billerica.ma.us!esj@network.UCSD.EDU
Subject: FCC Rules on Transmission
To: info-hams@ucsd.edu

In <1993Apr29.214745.1222@miavx3.mid.muohio.edu>, clmorgan@miavx3.mid.muohio.edu writes:

>In article <95338@hydra.gatech.EDU>, gt0701b@prism.gatech.EDU (Jim Hancock) writes:

>> A ham buddy of mine told me that if operating on simplex as
>> long as you are transmitting under 1W that anyone, licensed or not,
>> can talk on these frequencies and even if you are licensed, do not

>> have to identify.

...

>Not true. 'Tis likely you'd never be caught, but, that wasn't what you
>asked.

>

>The FCC does allocate a few frequencies to be used for restricted radiation
>devices ... none of them are in the ham bands.

I believe one of the bands for unlicensed, low power spread spectrum
devices is 900mhz which was a ham band the last time I checked.

--- eric

--

HOME: esj@harvee.billerica.ma.us HAM ka1eec

WORK: 617.630.4687 (w) esj@ruby.polaroid.com

source of the public's fear of the unknown since 1956

Date: 3 May 93 17:36:49 EST

From: titan.ksc.nasa.gov!k4dii.ksc.nasa.gov!user@ames.arpa

Subject: IC-22U

To: info-hams@ucsd.edu

In article <9304262314.AA08420@tecnet1.jcte.jcs.mil>,

jdelancy@tecnet1.jcte.jcs.mil wrote:

> Does anyone else in this world have a IC-22U (not the 22S, but
> the 22 Uniform) and been successful in putting a PL board into
> it? If so, whose board did you use, and how did you do it?

jd-

I have both the 22S and 22U, but haven't installed PL in either. However,
I have installed a Communications Specialist board in a Kenwood TS-670 with
the FM-10 board, and in a KDK FM-6033. In both cases, 5 volts was
available, so the Com Spec's on-board 5 volt regulator was removed and
bypassed prior to installation. I think it was the Com Spec model SS-32P,
but not sure.

Lessons I learned:

1. You MUST inject the tone beyond the limiter stage. If you don't, the
tone will disappear while voice signals are in limiting. Look at the
diagram supplied with the radio, to see where they injected the tone in the
version with PL option. It is probably close to a "vari-cap"
voltage-variable capacitor in an oscillator circuit.

2. Use a 100K ohm resistor to isolate the output from the tone board from

the injection point.

3. Bypass the output of the tone board, close to the 100K ohm resistor. I used a 0.01 mf ceramic capacitor.

4. Keep wiring short and away from high power RF stages.

5. Adjust PL deviation to about 750 Hz. Adjustment procedures for various radios range from 500 Hz to 1,000 Hz. Some have no adjustment, and specify that you should verify it is within that range.

I hope this is helpful, if you don't get the exact information you need.

73, Fred, K4DII

fred-mckenzie@ksc.nasa.gov

Date: 3 May 93 22:43:56 GMT
From: mvb.saic.com!unogate!news.service.uci.edu!orion.oac.uci.edu!
easu348@network.UCSD.EDU
Subject: Kenwood 732/742 Remote question
To: info-hams@ucsd.edu

I have a couple questions about the ability to access the Kenwood 732 and the new 742 through an HT (Kenwood or otherwise).

1. Do these radios have the ability to be accessed by remote in the first place?
2. Does one need a Kenwood HT to do this?
3. Would this be done through DSQ paging codes?
4. Assuming all this is possible, could you change frequencies plus use other radio functions, or just turn the power on and off?

The answers to these questions would sure help me out quite a bit. I would appreciate any responses. Thanks in advance!

Andrew

s

?

--

Andrew Parker | KD6TGM | easu348@orion.oac.uci.edu

Date: 4 May 93 01:14:49 GMT

From: pa.dec.com!nntpd2.cxo.dec.com!nuts2u.enet.dec.com!little@decwrl.dec.com

Subject: Need for foul language?

To: info-hams@ucsd.edu

jmaynard@nyx.cs.du.edu (Jay Maynard) writes:

>In article <1993May3.015821.8373@nntpd2.cxo.dec.com> little@nuts2u.enet.dec.com
(nuts2u::little) wr>>Let me see if I understand this. Since I can't see the other
person's

>>face, it is acceptable and normal for me to curse the other individual?

>

>On this new, different, evolving medium, yes, it is. You will not find this

>discussion in any other newsgroup (certainly none of the hundred or so I

>read). The net is *fundamentally* *different* from other forms of

>communication, and different conventions have evolved to fit.

Sorry to burst your little bubble, but electronic communication of this form
is neither new or unique unless you consider 20 years old new and many
instances unique. I've used electronic forums of the type provided by
netnews for over 20 years and have never seen the same sort of nonsense
that goes on here. It sort of reminds me of CB, loud mouths and foul
language.

>felt for that individual's actions. Nothing carries quite the same force as
>saying someone is a ****ing disgrace to ham radio, and that's not because I
>lack the vocabulary to express the feeling; rather, it's because everything
>else is simply a poor euphemism to hide strong feelings from those who cannot
>take them.

Nice self contradiction. If you had the vocabulary to express your
feelings then everything else wouldn't be a poor euphemism. I can
certainly "take" your strong feelings, I just find your manners repugnant.
Perhaps to you, cursing shows "strong feelings", to me it's simply being
crude.

Oh yeah, I'll try to take your .sig file to heart and not ascribe your
actions to malice.

73,
Todd
N9MWB

Date: Mon, 3 May 1993 16:36:20 EST

From: anomaly.sbs.com!n1mpq!news@uunet.uu.net

Subject: NEW HAMS/NO-CODES to the RESCUE

To: info-hams@ucsd.edu

WRIGHT@morekypr.BITNET writes:

```
>>It was reported in the RACK (Radio Amateur Club of Knoxville, TN) that durin
> g
>>the Blizzard of '93 (the snowstorm last month that halted the entire eastern
>>U.S.) most all of the amateur radio help came from new hams, most of whom we
> re
>>no-coders. During the storm, the Knox county emergency communications radio
>>trunking system went out due to a power outage to the control repeater. So,
>>^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
>>I'll bet someone that does the Emergency coordination for the county
>>lost their job over that one.

>>amateur radio volunteers with mobiles and HTs came to the rescue to ride alo
> ng
>>with ambulance and police patrols to keep in contact with E-911.
>>
>>Without these amateurs, it would have been a disastrous situation. Thus, th
> e
>>no-coders showed their true spirit of dedication to the hobby of ham radio.
>>
>>Think about that the next time you want to flame no-coders
>>
>>Mark
>>waiting to get a no-code call
>>-----
> THANK YOU MARK.
>
> Now for you NO_CODE bashers: STICK THAT IN YOUR PIPE AND SMOKE IT!!!!!!
>
> Tim Wright KD40VM
```

No-Codes aren't necessarily a bad thing, but when they scream for access to places they have no right to.. then it bugs me.

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| Tony Pelliccio kd1nr/ae | "Usenet is like a herd of performing elephants
|                          | with diarrhea -- massive, difficult to
| system@garlic.sbs.com   | redirect, awe-inspiring, entertaining, and a
|                          | source of mind-boggling amounts of excrement
|                          | when you least expect it." --spaf (1992)
-----
```

Date: Tue, 4 May 1993 04:56:42 GMT

From: usc!zaphod.mps.ohio-state.edu!sol.ctr.columbia.edu!news.cs.columbia.edu!
popovich@network.UCSD.EDU
Subject: no-code defense
To: info-hams@ucsd.edu

>> I'm NH6IL and I'm against the no-code license.
>
> I'm KD1NR and I'm against the no-code license.

I'm WB3I and I think this thread is silly.
But I'm still for the no-code license.
-Steve

Date: 3 May 93 16:39:59 EST
From: titan.ksc.nasa.gov!k4dii.ksc.nasa.gov!user@ames.arpa
Subject: Possible to parallel x-formers??
To: info-hams@ucsd.edu

In article <1993Apr28.235012.18379@exu.ericsson.se>,
exualan@exu.ericsson.se (Alan Malkiel) wrote:
> In the never ending quest to pinch a penny I am trying to avoid
> buying a 18V, 20Amp transformer, for my future 13.8V power supply.
> In the junk box sit 2 different 10Amp (appx.), 18V (appx.) used
> transformers. The question: Can I wire them in parallel?

Alan-

This may be slightly speculative - I believe you can wire the transformers
in parallel ONLY if you can adjust them to have EXACTLY the same turns
ratio. If the primary is off by a turn or two, you may not be able to
adjust the low voltage secondary alone, to compensate.

If you can't adjust the ratio exactly, you might use two bridges for
isolation, so any difference in turns ratio won't act like "shorted turns".

This way, the transformer with the highest output voltage will carry the
load until its I-R drop brings it down to the voltage of the lesser
winding. I suspect the highest voltage winding will always carry more of
the load, so you won't have twice the capacity of one transformer alone.

73, Fred, K4DII

fred-mckenzie@ksc.nasa.gov

Date: 4 May 93 02:52:12 GMT

From: news-mail-gateway@ucsd.edu
Subject: Scanner Interference
To: info-hams@ucsd.edu

Has anyone else come across a problem scanner that emits a signal strong enough to key your local repeater? We have one someplace in the neighbor hood that when it scans across 155.610, it emits a signal on 144.7859 that keys on the input of the 144.79/145.39 repeater. What corrective actions did you take?

jd

Date: Tue, 4 May 1993 02:13:00 GMT
From: usc!howland.reston.ans.net!ux1.cso.uiuc.edu!news.cso.uiuc.edu!
uxa.cso.uiuc.edu!jtg0707@network.UCSD.EDU
Subject: TCM3105
To: info-hams@ucsd.edu

Can anyone direct me to a source for the TCM3105 chip?
How much dos this chip cost?
I could not find it in the Newark catalog.
Thanks in advance.
J.T.
jtg0707@uxa.cso.uiuc.edu

Date: Tue, 04 May 1993 02:01:03 GMT
From: anomaly.sbs.com!kd1hz@uunet.uu.net
To: info-hams@ucsd.edu

References <1rjma3\$9qg@network.ucsd.edu>, <C6Fp4o.F2L@news.Hawaii.Edu>, <718@zds-ux.UUCP>t
Subject : Re: no-code defense

bjstaff@zds-ux.UUCP (Brad Staff) writes:

> I'm NH6IL and I'm against the no-code license.
> I'm AA8IF and I'm in favor of the no-code license.

I'm KD1HZ and I think no-codes are scumbags.

MD

--
-- Michael P. Daignan, KD1HZ / VE: ARRL, W5YI VECs
-- Domain: kd1hz@anomaly.sbs.risc.net / -----

-- UUCP: ...!uunet!anomaly!kd1hz / I'm not a bigot,
-- Telebit: +1 401 455 0347 / I hate everyone...

Date: Mon, 3 May 1993 16:20:18 EST
From: anomaly.sbs.com!n1mpq!news@uunet.uu.net
To: info-hams@ucsd.edu

References <1993Apr27.185354.4329@nntpd2.cxo.dec.com>,
<930428.005354.5C3.rusnews.w165w@garlic.sbs.com>,
<2MAY199318341194@nssdca.gsfc.nasa.gov>
Subject : Re: no-code defense

stocker@nssdca.gsfc.nasa.gov (ERICH FRANZ STOCKER) writes:

>>
>>And btw, if you happen to be a no-code and are offended by my
>>attitude... well there are two words for you....
>>
>>...- -.- -.- -.- --- ...- -.-.
>>
>>Hah... too bad.
>>
>>Tony
>>
> This just shows how inordinately ignorant, boorish, and
> "red neckish" you. If your vocabulary is limited to what you
> send in code, you rank among those people who have more than fully
> demonstrated why there are so many problems on HF. Simple courtesy
> would go a long way to cleaning up Ham radio. Perhaps if the FCC
> pulled your license it would be a start.

And why might they want to pull my license? It's not illegal to state
ones views in a forum like this. But if I were to say that over the air,
which I've never done, they might have cause to issue an NAL of some
sort. So go pound sand... and keep dreaming.

Tony

| Tony Pelliccio kd1nr/ae | "Usenet is like a herd of performing elephants
| | with diarrhea -- massive, difficult to
| system@garlic.sbs.com | redirect, awe-inspiring, entertaining, and a
| | source of mind-boggling amounts of excrement
| | when you least expect it." --spaf (1992)

Date: Mon, 3 May 1993 16:28:37 EST
From: anomaly.sbs.com!n1mpq!news@uunet.uu.net
To: info-hams@ucsd.edu

References <lu377sINNifl@news.bbn.com>,
<930502.151850.7V4.rusnews.w165w@garlic.sbs.com>, <C6Fp4o.F2L@news.Hawaii.Edu>
Subject : Re: no-code defense

jherman@uhunix.uhcc.Hawaii.Edu (Jeff Herman) writes:

> So, ladies and gentlemen, why don't we take an informal poll here on
> the net: give your callsign and state whether you support the no-code
> license or feel it was a bad idea. I'll start:
>
> I'm NH6IL and I'm against the no-code license.

I'm KD1NR and I'm against the no-code license.

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-----  
| Tony Pelliccio kd1nr/ae | "Usenet is like a herd of performing elephants  
|                          | with diarrhea -- massive, difficult to  
| system@garlic.sbs.com   | redirect, awe-inspiring, entertaining, and a  
|                          | source of mind-boggling amounts of excrement  
----- when you least expect it." --spaf (1992)
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Date: Sun, 2 May 1993 22:36:33 EST
From: anomaly.sbs.com!mooch!news@uunet.uu.net
To: info-hams@ucsd.edu

References <1rjma3\$9qg@network.ucsd.edu>,
<930429.171925.0U6.rusnews.w165w@garlic.sbs.com>, <lu377sINNifl@news.bbn.com>
Subject : Re: no-code defense

N1MNF/AA <levin@bbn.com> writes:

> system@garlic.sbs.com (Anthony S. Pelliccio) writes:

> |Actually there's more than a minority. It's just that all this
> |politically correct bullshit keeps some people from saying whats really
> |on their minds. :)
>
> Are you saying that the '"no-code" bashers' are a majority of hams?
>
> Puh-leeze.

Well I would say that they are a majority of hams who have been licensed for more than a few years. The no-clues (oops I mean no-codes) have increased disproportionately to other licenses. It figures though. Americans tend to always like the "easy" way in everything. Whine and bitch enough and complain that something is unfair and/or discriminating and POOF here you go, take it. Even if those complaints are irrational and unfounded, just the "idea" of inequality binges up some peoples panties. Two meters sounds something reminiscent of CB around here. It is not necessarily the code requirement that bothers me. It is the joke of a test which is administered. Give me a break, when I hear of 8 or 9 year old kids who pass their advanced or extra class licenses and are still doing long division in school. Can you say "rote memorization". It all started with the digital license idea. But you give them an inch and they take a yard. Lets make the question pools too large to memorize. Or better yet, do not publish the current question pool in use. Tailor it something like the LSAT exam or other graduate school standardized exams.

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$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
$
$ Christopher R. Ogren NM1Z | If you believe it's $
$ | time for change... $
$ system@mooch.sbs.com | then that's all you $
$ nm1z@switch.w1cg-9.ampr.org | will have left after $
$ [44.104.0.2] | Clinton's 4 years. $
$ NM1Z@KA1RCI.RI.USA (ax25) | ~~~~~ $
$ $
$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$

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Date: 4 May 93 02:38:12 GMT
 From: news.service.uci.edu!ucivax!turner@network.UCSD.EDU
 To: info-hams@ucsd.edu

References <LINNIG.93May2133945@m2000.dseg.ti.com>, <2BE4A10A.5706@ics.uci.edu>,
 <1993May3.215039.21460@btree.uucp>
 Subject : Re: Sueing Jammers (Was: Re: "Busting" Jammers)

In <1993May3.215039.21460@btree.uucp> bly@btree.uucp (Roger Bly) writes:

>You can't bring a "normal" civil suit for something like jamming.
 >Any suit brought in state or federal court dealing with RF will be rejected
 >and you will be referred to the FCC for hearing by an Administrative Law
 >Judge (ALJ). From there, it goes like this:

Ooops. This is a basically correct idea in that many judges will try to send you there, especially if your case is based on FCC regulations, BUT you can certainly try a case in tort law (negligence, nuisance, tortious interference with contract, etc.....) based upon someone intentionally interfering with a repeater. Your success will not be based upon a judge sending you before the FCC, it will be based in State (Common) Law over which the FCC and Federal Courts basically have no power.

- >1. The FCC will hear civil disputes before an ALJ.
- >2. Appeal ALJ decision to FCC Appeal Board.
- >3. Appeal ALJ decision to DC district court.
- >4. Appeal to DC court of appeals.
- >5. Appeal to US Supreme Court.

You can only get there based upon FCC regulations, as stated above. If so, fine, but the kind of cases we are talking about are civil suits based upon Common Law.

>The FCC ALJ can also issue temporary restraining orders (TRO) in civil cases.
>I believe there have been TROs issued in the ham bands (147.435 LA repeater
>as I recall). I will look for past cases in the WestLaw DB if anyone really
>cares.

I didn't know this, and this is very good information. PLEASE give citations from Westlaw (wish I could afford the service!!)

>And of course, malicious interference (911 or other) is a federal felony,
>not civil.

Well, again, it can be both. You can certainly sue someone for intentionally interfering with YOUR particular emergency if you suffered damages....and it would be based upon Common Law, where the Federal Court has no business, except in limited circumstances. (A true Federalist!) All this while the Federal Government can still go for the Criminal charge. This is the same as a Thief stealing from your home: The fact that he is locked up for a criminal charge does not stop you from bringing a "trespass to chattell" or "conversion" suit in Civil Court to get the property back or to get restitution (which the Criminal Judge is under no obligation to order....) Many persons affected by crimes later bring civil suits in order to get restitution from the criminal (if the criminal has any property!)

>P.S. If going before an FCC ALJ, it helps to bring along a Admin law
>lawyer. Admin law is funky stuff!

Agreed! Absolutely agreed!

Clark

.....

Clark Savage Turner, Graduate Student Researcher
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(714) 856 4049 (714) 856 2131

WA3JPG, QRP #3526, active on HF, VHF and UHF.
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ARRL Volunteer Counsel

End of Info-Hams Digest V93 #534
